

Title (en)
Brush assembly for an electric motor

Title (de)
Bürstenanordnung für einen elektrischen Motor

Title (fr)
Ensemble porte-balais pour moteur électrique

Publication
EP 2835896 A3 20160127 (EN)

Application
EP 14180371 A 20140808

Priority
• US 201361864264 P 20130809
• US 201461932932 P 20140129

Abstract (en)
[origin: EP2835891A2] An electric motor is provided including a stator and an armature rotatably received within the stator, the armature having an armature shaft on which a commutator is mounted. The motor also includes a brush assembly having a brush card mount disposed around the commutator, a brush holder mounted on a surface of the brush card mount, and a brush disposed within the brush holder in sliding contact with the commutator to supply electric current to the commutator. A back surface of the brush includes at least one curved surface and a groove. A torsion spring is secured to the brush card mount adjacent the brush holder, the spring having a leg arranged to engage the groove of the back surface of the brush.

IPC 8 full level
H02K 9/28 (2006.01)

CPC (source: EP US)
H01R 39/381 (2013.01 - US); **H01R 39/385** (2013.01 - US); **H02K 3/38** (2013.01 - EP US); **H02K 3/527** (2013.01 - EP US);
H02K 5/148 (2013.01 - EP US); **H02K 7/085** (2013.01 - US); **H02K 7/145** (2013.01 - EP US); **H02K 9/04** (2013.01 - US);
H02K 9/06 (2013.01 - EP US); **H02K 9/28** (2013.01 - EP US); **H02K 13/00** (2013.01 - US); **H02K 13/10** (2013.01 - US);
H02K 5/18 (2013.01 - EP US)

Citation (search report)
• [XY] US 4851730 A 19890725 - FUSHIYA FUSAO [JP], et al
• [Y] EP 1621293 A2 20060201 - MAKITA CORP [JP]
• [Y] US 2004171299 A1 20040902 - ZEILER JEFFREY M [US], et al
• [XY] US 2007007846 A1 20070111 - NIIMI MASAMI [JP]
• [YA] JP H09261914 A 19971003 - ASMO CO LTD
• [X] US 2003111929 A1 20030619 - HONG TAO [US], et al
• [I] JP S61106041 A 19860524 - MITSUBISHI ELECTRIC CORP
• [I] US 6133665 A 20001017 - PRELL EDWARD T [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2835891 A2 20150211; EP 2835891 A3 20160127; EP 2835892 A2 20150211; EP 2835892 A3 20160127; EP 2835892 B1 20181226;
EP 2835893 A2 20150211; EP 2835893 A3 20160504; EP 2835893 B1 20200701; EP 2835894 A2 20150211; EP 2835894 A3 20160504;
EP 2835894 B1 20170621; EP 2835896 A2 20150211; EP 2835896 A3 20160127; EP 2835896 B1 20190306; EP 2835897 A2 20150211;
EP 2835897 A3 20151216; EP 2835897 B1 20190925; EP 2835898 A2 20150211; EP 2835898 A3 20160127; US 10003238 B2 20180619;
US 10181767 B2 20190115; US 10734864 B2 20200804; US 2015042189 A1 20150212; US 2015042202 A1 20150212;
US 2015042203 A1 20150212; US 2015042204 A1 20150212; US 2015042214 A1 20150212; US 2015076936 A1 20150319;
US 2015194859 A1 20150709; US 2019097498 A1 20190328; US 9923429 B2 20180320

DOCDB simple family (application)
EP 14180417 A 20140808; EP 14180371 A 20140808; EP 14180375 A 20140808; EP 14180380 A 20140808; EP 14180385 A 20140808;
EP 14180413 A 20140808; EP 14180418 A 20140808; US 201414453706 A 20140807; US 201414453755 A 20140807;
US 201414453766 A 20140807; US 201414453785 A 20140807; US 201414453793 A 20140807; US 201414453863 A 20140807;
US 201414453873 A 20140807; US 201816204451 A 20181129